

Analytical Data Sheet

Lot number **1000000421**
not for drug use

Catalog number **E-1390.0005**
Product number **4000340.0005**
Product **H- Asn- OtBu · HCl**
Molecular formula **C₈H₁₆N₂O₃ · HCl**
Relative molecular mass **224.69**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.6 %</td> <td>C = 40.3 %</td> </tr> <tr> <td>H = 7.8 %</td> <td>H = 7.4 %</td> </tr> <tr> <td>N = 11.8 %</td> <td>N = 11.9 %</td> </tr> </tbody> </table> <p>calc. as 1.03 HCl (15.43 % Cl) x 0.6 H₂O (4.6 %)</p>	Theory	Found	C = 40.6 %	C = 40.3 %	H = 7.8 %	H = 7.4 %	N = 11.8 %	N = 11.9 %
Theory	Found								
C = 40.6 %	C = 40.3 %								
H = 7.8 %	H = 7.4 %								
N = 11.8 %	N = 11.9 %								
Identification (TLC)	conforms with authentic material								
Melting point	114 °C (decomposes)								
Specific optical rotation	$[\alpha]_D^{24} = +11.8^\circ$ (2 % in MeOH)								
Purity (TLC)	> 99%								
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Water content (KF volumetric)	4.0%								
Chloride content (titration)	15.4% (AgNO ₃)								

Latest update: June 19, 2018

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